

Title: PORPHYRIN-ACCUMULATING TYPE HERBICIDE RESISTANCE GENE

Patent Number: WO9704088

Publication date: 1997-02-06


Inventor(s): SATO RYO (JP); BOYNTON JOHN (US); GILLHAM NICHOLAS W (US); HARRIS ELIZABETH H (US)


Applicant(s): SUMITOMO CHEMICAL CO (JP); UNIV DUKE (US); SATO RYO (JP); BOYNTON JOHN (US); GILLHAM NICHOLAS W (US); HARRIS ELIZABETH H (US)

Application Number: WO95US09098 19950720

Priority Number(s): WO95US09098 19950720

IPC Classification: C12N15/11 ; C12N15/82 ; C12N5/04

Requested Patent:  WO9704088

Equivalents: CA2227277 ,  WO9704089

Abstract

Provided are DNA fragments and biologically functional equivalents thereof that confer resistance to porphyrin-accumulating type herbicides upon plant and algal cells, plasmids containing these DNA fragments or biologically functional equivalents thereof, microorganisms containing these DNA fragments or biologically functional equivalents thereof, methods for conferring resistance to porphyrin-accumulating type herbicides upon plant or algal cells using these DNA fragments or biologically functional equivalents thereof, and herbicide-resistant plants or algae into which these DNA fragments or biologically functional equivalents thereof have been introduced and in which they are expressed.